

Ayon Saneel Das

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SKILLS

Python Computer Language <ul style="list-style-type: none">Machine Learning - Numpy, Scikit-Learn, PyTorchWeb Development - Flask	June 2015 – Present
C / C++ / C# Computer Language <ul style="list-style-type: none">Game Development - Unity, GodotLow-level development - Operating Systems, Architecture, Networks	August 2016 – Present
Java / JavaScript Computer Language <ul style="list-style-type: none">Certified with Oracle - 04/28/2022App Development - Android StudioWeb Development - React	June 2014 – Present
Robotics / Mechanical <ul style="list-style-type: none">University of Texas Intelligent Ground Vehicle Competition Team - Mechanical / ProgrammingFirst Tech Challenge (Team 11629) – Build Lead / Programming (Regional Qualifier x2)	January 2017 – Present
Mathematics (Competitive) <ul style="list-style-type: none">AMC 10 Distinguished Honor Roll, 5x AIME Qualifier (Max Score 9)Harvard MIT Math Tournament Top 20 Teams (2018 / 2021)American Regions Mathematics League Junior Varsity Top Team (2018)	September 2014 – Present
Programming (Competitive) <ul style="list-style-type: none">Lockheed Martin CodeQuest High Achiever - 1st Place in State (2021)HP CodeWars High Achiever - 1st Place in State and Country (2021), 3rd in State (2020)American Computer Science League Finalist (2021 and 2022)UIL 2nd Top Team in State (2022)USACO Silver Level (Perfect Score in Bronze)	April 2019 – Present
Blender / 3D Modeling <ul style="list-style-type: none">Personal Designing Hobby, also implemented in Unity, Godot, Autodesk / SolidWorks CAD	June 2012 – Present

EDUCATION

The University of Texas at Austin <i>Bachelor of Science in Computer Science (Turing Scholars - Junior)</i> <i>Bachelor of Science in Math, Minor in Economics</i>	Austin, TX GPA: 3.975 Aug. 2022 – May 2026
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Course Name	Grade	Course Name	Grade	Course Name	Grade
CS 373 Software Engineering	A	CS 363H Honors Prin. of ML I	A	CS 343H Honors Artificial Intelligence	A
CS 347 Data Management	A	CS 331H Honors Algorithms	A-	CS 356 Computer Networks	A
M 362K Probability I	A	SDS 378 Intro. to Mathematical Stats	A	ECO 420K Microeconomic Theory	A

WORK

Vislab Research Assistant <i>Texas Advanced Computing Center (TACC)</i> <ul style="list-style-type: none">Developing software for the Texas LASSO system, including an interactive simulation of complex molecular dynamics.Working with Unity to develop interactive VR experiences to aid in data and scientific visualization.Synthetic Data project with Unity for visualization of glacier data in GreenlandCustomizable pipeline for applying textures to a scientific model without grid-like appearanceGraphic visualization of data for the NSF-GCR Community: see at https://sites.google.com/utexas.edu/gcr/Developing a small cluster using Raspberry Pi's (Network programming and setup)Providing interactive and engaging tours of the Vislab to present TACC and research as a whole to students	January 2023 – Present Austin, TX
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RESEARCH

Living with Robots Laboratory (With Dr. Justin Hart) <i>Python, C++, ROS, Linux</i> <ul style="list-style-type: none">Developing architecture for LLM-powered agent capable of using natural language instructions.Utilizing modified CLIP architecture with SAM for object detection.Developing code (C++, Python, ROS) / working with networks to help run robot with UR5 arm.	April 2024 – Present
Retrieval LLM (With Dr. Eunsol Choi) <i>Python, PyTorch, JSON</i> <ul style="list-style-type: none">Using language models to determine accuracy of new methods of retrieval.	May 2024 – Present
NVIDIA AI Algorithm Team - LLM Data Science <i>Python, JSON</i> <ul style="list-style-type: none">Developed scripts and methods to generate and clean testing data alongside senior researchers.	May 2023 – January 2024
Detecting Trace Substances <i>Matlab, Python, Machine Learning</i>	August 2019 – March 2020
Defeating Multidrug Resistance <i>Python, Genetics Database</i>	September 2018 – April 2019